

## POWER SECTION

**Model No: AT475451.2**

Revised: 6/16/2022

Rotor Specifications	
	inches
Overall Length	47.50
Contour Length	41.50
Major Diameter	2.912
Eccentricity	0.246
Head diameter	2.750
Thread Form	2.375 HEF Modified
Weight	0 lbs
Material	17-4 PH <sup>1</sup>

Stator Specifications	
	inches
Overall Length	53.50
Tube OD	5.00
Tube ID	3.75
Rubber Cutback Top/End	8.00 / 8.00
Weight	0 lbs
Number of Stages	1.2
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR-HPW & NBR-HPO

NBR-HPW (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD						
.5 OS	2.430	-0.010	0.002	0.014	0.032	0.043
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

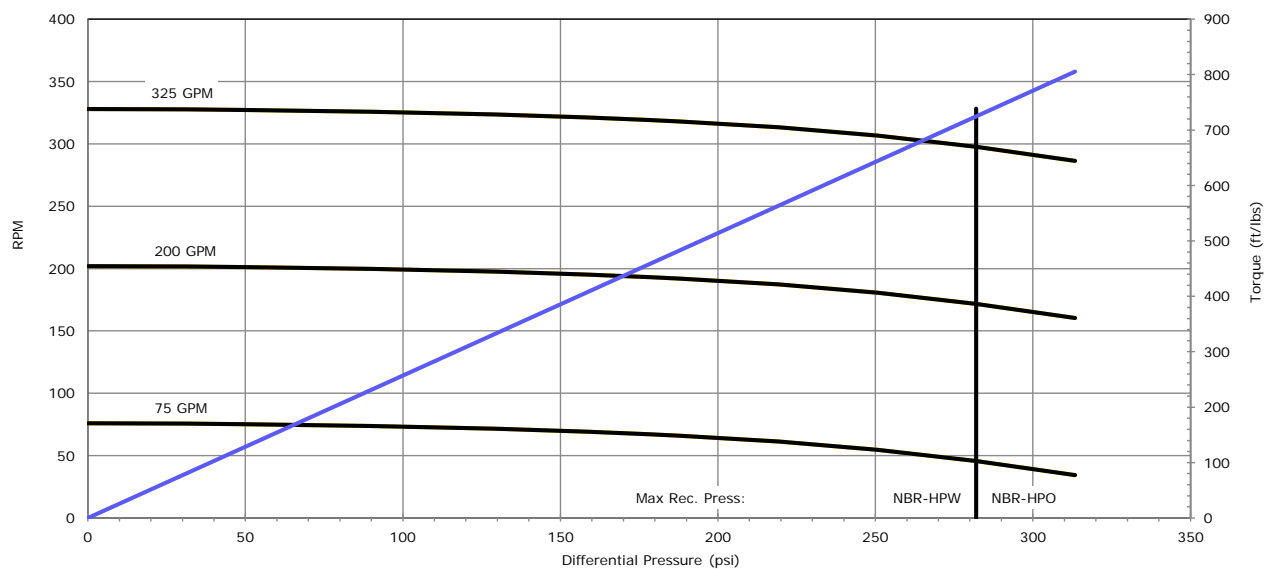
NBR-HPO (in)		Fits (+ Compression / - Loose)				
Size	Minor <sup>2</sup>	75 °F	125 °F	175 °F	250 °F	300 °F <sup>3</sup>
.5 US						
STD						
.5 OS	2.430	-0.010	0.002	0.014	0.032	0.043
1.0 OS						
1.5 OS						
2.0 OS						
2.5 OS						

Performance Specifications	
Flow Range (gpm)	75 - 325
Speed Range (rpm)	80 - 330
Torque Slope (ft-lb/psi)	2.57
Rotation (rev/gal)	1.010
Off Bottom Pressure (psi)	60

Performance Details		
	NBR-HPW	NBR-HPO
Max Diff Press (psi)	290	290
Stall Diff Press (psi)	450	450
Max Torque (ft-lb)	730	730
Stall Torque (ft-lb)	1150	1150

■ (NBR-HPW/HPO)

■ Torque



<sup>1</sup> Coating options of chrome or tungsten carbide are available <sup>2</sup> Vector Gauge Readings at Room Temp 75°F <sup>3</sup> BHCT Exceeding 320°F will void warranty for NBR-HPW/HPO.

Performance curves are based on new rotor and stator dimensions and for reference only. Actual performance may vary depending on fit and drilling conditions. The stall torque may exceed that specified for the connected components. Operating over the recommended limits may result in damage to the power section and connected components. Please visit [www.AbacoDrilling.com](http://www.AbacoDrilling.com) for the latest specification revisions.

### LOCATIONS

US: Headquarters  
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